

Page 11, line 26, insert --BRIEF DESCRIPTION OF THE  
DRAWINGS--.

Page 13, line 1, insert --DETAILED DESCRIPTION OF THE  
INVENTION--.

IN THE CLAIMS

Page 34, line 1, delete "Claims" insert --What is claimed  
is--.

Please amend claims 5, 6, 8, 13-17, 19, 20, 23, 26, 29  
and 33 as follows:

5. (Amended) A method as claimed in claim 3 [or 4],  
wherein the method comprises weighting the first and second  
distortions.

6. (Amended) A method as claimed in [any preceding]  
claim 1, wherein the compensation is for distortion by a  
linear component of the transmitter.

8. (Amended) A method as claimed in [any of claims]  
claim 2 [to 5], wherein the compensation is for distortion by  
a non linear component of the transmitter.

13. (Amended) A method according to [any preceding]  
claim 10, wherein the desired cost parameters are selected

from one or more of the group including component tolerances, power efficiency, spectral efficiency, bit error rate, AFC, Nuquist, and energy.

14. (Amended) A method as claimed in [any preceding] claim 10, wherein desired cost parameters are defined on the basis of TDMA telecommunications system requirements.

15. (Amended) A method as claimed in [any preceding] claim 10, wherein desired cost parameters are defined on the basis of GSM requirements.

16. (Amended) A method as claimed in claim 14 [or 15], wherein the pulse function is defined such that a pulse of Gaussian shape may be transmitted.

17. (Amended) A method as claimed in [any of claims] claim 1 [to 13], wherein desired cost parameters are defined on the basis of CDMA requirements.

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19. (Amended) A method according to [any preceding] claim 10, wherein the amplitude of the pulse function over a range of frequencies is defined in an iterative process in which the pulse function is altered and the cost parameters

determined until an acceptable balance of cost parameters is achieved.

95 20. (Amended) A method according to [any preceding] claim 10, wherein the method comprises the step of weighting the respective cost parameters.

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96 23. (Amended) A pulse function generator for converting a data stream in accordance with a pulse function shaped in accordance with the relationship defined by the method of [any preceding] claim 10.

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97 26. (Amended) A transceiver for a communication device comprising a modulator in accordance with claim 24 [or 25] and a demodulator.

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98 29. (Amended) A dual mode communication device operable in a first mode when a first set of cost parameters are desired and in a second mode when a second set of cost parameters are desired, the radiotelephone comprising:

a first pulse function generator for converting a data stream in accordance with a pulse function shaped in dependence on the first set of desired cost parameters;

